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## NOTICE OF ALLOWANCE AND FEE(S) DUE

22045

7500

01/25/2010

BROOKS KUSHMAN P.C. 1000 TOWN CENTER TWENTY-SECOND FLOOR SOUTHFIELD, MI 48075 EXAMINER

GUPTA, ANISH

ART UNIT PAPER NUMBER

1654 DATE MAILED: 01/25/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/814,891	03/31/2004	Maurice Arthur Trewhella	GRH0105PUSA	7582

TITLE OF INVENTION: NEW CONDITIONS FOR REACTIONS MEDIATED BY YEAST

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	04/26/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTOR	RNEY DOCKET NO.	CONFIRMATION NO.
10/814,891	03/31/2004	•	Maurice Arthur Trewhella	GRH0105PUSA		RH0105PUSA	7582
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nonprovisional	YES	\$755	\$300	\$0		\$1055	04/26/2010
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GUPTA	, ANISH	1654	435-041000				
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3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	I THE PATENT (print or typ	oe)			
PLEASE NOTE: Unl	less an assignee is ident	ified below, no assignee	data will appear on the pa	atent. If an assign	ee is ide	entified below, the do	cument has been filed for
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(A) WHILE OF ABOU	OTTEL		(B) RESIDENCE. (CIT I	and STATE OR C	.001111	K1)	
Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent): $\Box$	Individual 🖵 Co	orporatio	on or other private gro	up entity 🗖 Government
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an application. Confiden	tiality is governed by 35 d application form to the	U.S.C. 122 and 37 CFR USPTO. Time will vary	1.14. This collection is estable to the individual of the collection of the individual collection.	imated to take 12 r idual case. Any co	minutes mments	to complete, including on the amount of tin	g gathering, preparing, and ne you require to complete
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Alexandria, Virginia 223	313-1450.						

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10/814,891 03/31/2004		Maurice Arthur Trewhella	GRH0105PUSA 7582		
22045 75	22045 7590 01/25/2010		EXAMINER		
BROOKS KUSE	IMAN P.C.	GUPTA, ANISH			
1000 TOWN CENTER			ART UNIT PAPER NUMBER		
TWENTY-SECON SOUTHFIELD, M			1654 DATE MAILED: 01/25/201	0	

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 315 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 315 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/814,891	TREWHELLA ET AL.
Notice of Allowability	Examiner	Art Unit
	ANISH GUPTA	1654
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in th or other appropriate communic IGHTS. This application is subj	is application. If not included cation will be mailed in due course. <b>THIS</b>
1. This communication is responsive to <u>11/18/09</u> .		
2. ☑ The allowed claim(s) is/are <u>1, 4-13,25-30 and 35-37</u> .		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority una)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents have  2.  Certified copies of the priority documents have  3.  Copies of the certified copies of the priority documents have  International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> <li>4.  A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give  5.  CORRECTED DRAWINGS (as "replacement sheets") must (a)  including changes required by the Notice of Draftspers  1)  hereto or 2)  to Paper No./Mail Date  (b)  including changes required by the attached Examiner's  Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the  Company of the paper No./Mail Date  DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT</li> </ul>	e been received.  been received in Application Notuments have been received in of this communication to file a received.  In this communication to file a received in the second of this application.  In the second of this application of the second of the se	this national stage application from the reply complying with the requirements  NER'S AMENDMENT or NOTICE OF eclaration is deficient.  PTO-948) attached  the Office action of  Irawings in the front (not the back) of .121(d).  IAL must be submitted. Note the
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material  /Anish Gupta/ Primary Examiner, Art Unit 1654	6.  ☐ Interview Sumi Paper No./Ma 7.  ☑ Examiner's Am	il Date

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Junqi Hang on 12/23/09.

The application has been amended as follows:

Claims 16-23, 31-33, 34 have been canceled.

#### Reasons For Allowance

The following is an examiner's statement of reasons for allowance:

The claims are drawn to a method of reducing an organic compound using yeast-water paste, where the water-to-yeast ratio is up to 1.5 ml/g.

The prior art of Kawai et al. teach asymmetric reduction of nitroalkene with baker's yeast. Specifically, the reference teaches the reduction of the nitroalkene to the corresponding alkane (see page 310). However, the reference, in the materials section, teaches general procedure for the reduction of disubstituted nitroalkenes. The reference teaches that to the nitroalkene was added dry baker's yeast (25g) in water 150 mL water (see page 315). For trisubstituted nitroalkenes, the reference teaches 50g of yeast in 250mL of water. The ratio of the water to yeast in the disubstituted reaction is 6 mL/g and 5 mL/g for the trisubstituted reaction. Similarly, Ohta et al. also teaches Reduction of Nitroalkene 1 with Bakers' Yeast (see page 1804). This reference also teaches adding dry yeast, 10g, in

50mL of water to the nitroalkene. Again the ratio is 5mL/g. Furthermore, both references also teach the presence of organic solvents such as ethanol within the reaction.

The ratios water-to-yeast ratio, taught in the prior art are significantly larger than the ratio claimed. The references do not provide any teaching or motivation that the ratio can be decreased to the claimed range. Furthermore, neither reference teaches that ethanol or any other organic solvent may be omitted from the reaction mixture. Note that the claims require that the reaction be "conducted in the absence of any additional solvents." Thus, the claimed invention is both novel and unobvious over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANISH GUPTA whose telephone number is (571)272-0965. The examiner can normally be reached on 5/4/9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tsang Cecilia can be reached on 571-272-0562. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/814,891 Page 4

Art Unit: 1654

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Anish Gupta/ Primary Examiner, Art Unit 1654